ABSTRACT

A first communication node, which transmits a packet including a data field and an FCS field, selectively transmits, to a second communication node, a first packet containing, in the FCS field, a first error detection code generated by performing a prescribed error detection code operation on a transmission packet or a second packet containing, in the FCS field, a second error detection code obtained by performing a prescribed operation on the first error detection code. The second communication node compares an error detection code C generated by performing the prescribed error detection code operation on a received packet with an error detection code F1 contained in the FCS field of the received packet, performs reception processing on the received packet with the understanding that it is classified as the first packet if the error detection codes C and F1 coincide with each other, compares the error detection code C generated by performing the prescribed error detection code operation on the received packet with an error detection code F2 obtained by performing an inverse operation for returning a result of the prescribed operation to an original on the error detection code F1 contained in the FCS field of the received packet, and performs reception processing on the received packet with the understanding that it is classified as the second packet if the error detection codes C and F2 coincide with each other.